

ABSTRACT

Coal mining activities of PT Al - Amanah Lempake 77 is located in the area . In the administrative area of the mine site is located in Sungai Pinang keluarahan In , District of North Samarinda , Samarinda , East Kalimantan . System using open pit mining with overburden stripping method is back filling . Stripping overburden blasting does not use , because the material is relatively soft . Unloading excavator is used Komatsu PC300 Excavator Backhoe to serve 4 units of dump trucks Nissan CWB and Komatsu PC200 Excavator Backhoe for serving 2 units of dump trucks Nissan CWB . Working time is provided by 19.86 hours / day with 2 shifts. Target stripping overburden at 162,000 bcm / month . Based on the fact the field , the average production is currently at 126,496.85 bcm / month is still a shortage of 35503.15 bcm / month .

The shortage of labor due to less than optimal efficiency . In connection with this it is necessary to study the unloading equipment and means of conveyance in overburden stripping activities at the mine site . PC300 work efficiency is 70.29 % and the efficiency of the dump truck that serves 61.98 % . PC200 work efficiency is 69.11 % and the efficiency of dump truck which served 62.65 % . PC300 combination of factors working harmony with 4 units of dump trucks is 0.88 . PC200 combination of factors working harmony with 2 units of dump trucks is 0.67 .

Efforts to achieve the target production is done by increasing the effective working time by reducing the time - time constraints that occur pada.kegiatan overburden stripping . Reduction of the time - time constraints will directly improve the work efficiency of mechanical equipment . PC300 working efficiency of 70.29 % to 78.92 % and the dump truck work efficiency increased from 61.98 % to 63.40 % . PC200 working efficiency of 69.11 % to 72.46 % . Dump truck work efficiency increased from 62.65 % to 66.17 % . The resulting production of 140,620.6 bcm / month so that production targets have not been met . Subsequent attempts to meet the production target is the addition of conveyance . Conveyances served Komatsu PC300 Excavator Backhoe plus 1 unit of 4 units 5 units rnenjadi that production increased to 110,592.42 bcm / month . Conveyances served Komatsu PC200 Excavator Backhoe plus 1 unit of 2 units to 3 units so that production increased to 51498.57 bcm / month . The resulting total pnoduksi increased from 140,620.6 bcm / month to 162.090.98 bcm / month , so the production target is reached . Combination of factors working harmony Backhoe Komatsu PC300 Excavator from 4 units to 5 units of dump trucks from 0.88 to 1.1 . P harmonious combination of factors working Komatsu Excavator Backhoe C200 from 2 units to 3 units of dump trucks from 0.67 to 1.01 .